Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-06-30-79 **Date: 20/05/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/05/2020	20/05/2020	151.02 X 149.40 X 151.61	22562	8.733	417.4	18.5	18.4
2	Drain Bottom Slab Concrete	M20	13/05/2020	20/05/2020	149.16 X 151.26 X 151.58	22562	8.794	413.5	18.3	
3	Drain Bottom Slab Concrete	M20	13/05/2020	20/05/2020	149.53 X 150.07 X 149.06	22440	8.741	414.9	18.5	

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ಪ.ಪ.ಐ.ಪಿ. ಬೆಂಗಳೂರು-106

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Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TE/01

Date: 10/06/2020

Lab ID : CP-2020-06-30-78

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division

Agency : Sri.G.Venkatagowda, No:570/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64

Customer's Reference : BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-05-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	13/05/2020	10/06/2020	151.42 X 149.24 X 151.18	22598	8.084	521.0	23.1	23.0
2	Drain Bottom Slab Concrete	M20	13/05/2020	10/06/2020	149.60 X 150.00 X 149.22	22441	8.756	502.2	22.4	
3	Drain Bottom Slab Concrete	M20	13/05/2020	10/06/2020	149.11 X 150.65 X 151.90	22463	8.102	528.0	23.5	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-30-79** **Date: 20/05/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/05/2020	20/05/2020	149.24 X 150.24 X 149.79	22421	8.733	412.2	18.4	18.5
2	Drain Bottom Slab Concrete	M20	13/05/2020	20/05/2020	151.60 X 149.64 X 150.45	22686	8.794	417.1	18.4	
3	Drain Bottom Slab Concrete	M20	13/05/2020	20/05/2020	149.81 X 151.14 X 151.72	22643	8.741	424.9	18.8	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/05/2020

Lab ID	:	CP-2020-06-30-79
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/05/2020	23/05/2020	150.17 X 150.66 X 151.41	22625	8.733	411.0	18.2	18.6
2	Drain Side Wall Concrete	M20	16/05/2020	23/05/2020	151.97 X 150.92 X 151.40	22935	8.794	434.2	18.9	
3	Drain Side Wall Concrete	M20	16/05/2020	23/05/2020	151.56 X 149.13 X 151.65	22602	8.741	422.9	18.7	

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-30-79 **Date: 30/05/2020**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division

Agency : Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64

Customer's Reference : BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-05-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/05/2020	30/05/2020	150.14 X 151.44 X 150.81	22737	8.496	572.1	25.2	25.4
2	Cement Concrete Pavement	M30	23/05/2020	30/05/2020	150.99 X 151.60 X 150.07	22891	8.246	597.9	26.1	
3	Cement Concrete Pavement	M30	23/05/2020	30/05/2020	150.44 X 151.30 X 151.32	22762	8.087	565.1	24.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 20/06/2020

Lab ID	:	CP-2020-06-30-79
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	23/05/2020	20/06/2020	149.77 X 151.77 X 150.62	22730	8.515	755.5	33.2	32.8
2	Cement Concrete Pavement	M30	23/05/2020	20/06/2020	151.96 X 150.33 X 149.53	22843	8.183	733.0	32.1	
3	Cement Concrete Pavement	M30	23/05/2020	20/06/2020	151.49 X 150.79 X 151.00	22842	8.477	758.4	33.2	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-30-79** **Date: 08-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-05-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-30-79** **Date: 08-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2020-06-30-79 **Date: 21-05-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-05-20
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	19-05-20
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/06/2020

Lab ID	:	CP-2020-06-30-79
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads in Ward No:04 Yelahanka Satellite Town Sub Division
Agency	:	Sri.G.Venkategowda, No:531/1, 14th A Cross, A Sector, Yelahanka New Town, Bangalore-64
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-16/W.O/07/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/05/2020	10/06/2020	149.20 X 149.40 X 150.64	22291	8.084	515.7	23.1	23.3
2	Drain Bottom Slab Concrete	M20	13/05/2020	10/06/2020	150.75 X 150.62 X 149.11	22706	8.756	517.2	22.8	
3	Drain Bottom Slab Concrete	M20	13/05/2020	10/06/2020	149.14 X 149.60 X 151.45	22312	8.102	531.9	23.8	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |